Oregon and Washington State Framework

Clearinghouse Hydrologic Unit Layer Data Dictionary

Physical Data Model

Version 1.1

Prepared by the

Washington and Oregon
Hydrography Framework
Technical Work Groups

April 11, 2003

Table of Contents

Section 1 – Hydrologic Unit Layer Description

The purpose of the Hydrologic Unit Boundaries dataset is to simultaneously maintain an index representing Level One (1) through Eight (8) Hydrologic Unit Boundaries. This dataset is intended as a tool for water-resource management and planning activities, particularly for site-specific and localized studies, which require the amount of detail provided by a large-scale map. The Hydrologic Unit Boundaries coverage contains attributes for polygons, arcs and seven Arc/Info regions. Hydrologic Unit delineations are closed polygons that encompass all area draining toward the lowest point (called pour point) in the polygon.

To better classify hydrologic units, the dataset is divided into separate size classifications called "Levels" or "Fields," which define drainage areas of specific size within a network of hydrologic units. The largest classification of this kind is called a 1st Level hydrologic unit (also referred to as Region). An example of a 1st Level hydrologic unit is the Columbia River Basin Region, which defines the drainage network for the majority of the States of Oregon and Washington. As part of the ranking system, 1st Level units can be subdivided into smaller 2nd Level units, which can be further subdivided into 3rd Level units and so on. These divisions currently may continue until much smaller 8th Level units are reached. The methods for delineating these units are based on the Interagency Guidelines on Delineation of Hydrologic Unit and Subwatershed Hydrologic Unit Boundaries (http://wwwga.usgs.gov/gis/iag.html).

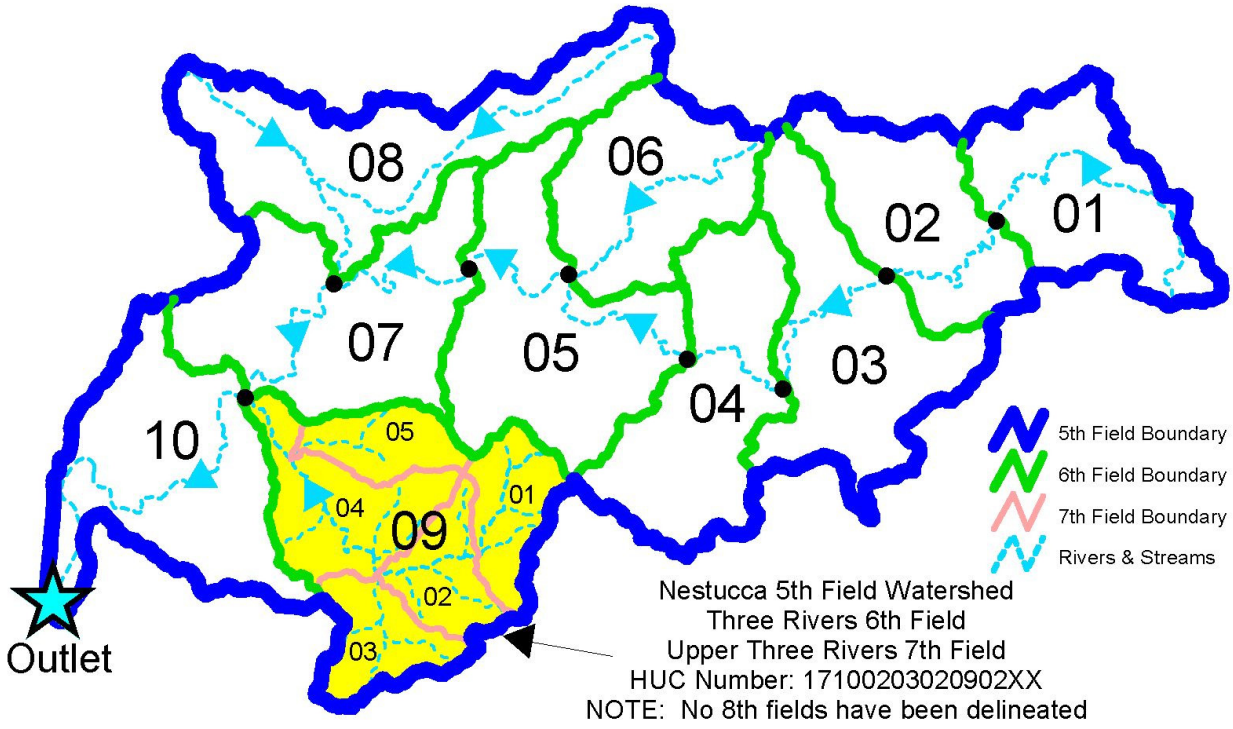
Several nested hydrologic unit boundaries have been incorporated to create this geospatial dataset, which allow for mapping to the 8th Level. The dataset was developed by delineating the boundary lines on 1:24,000 base maps and digitizing the delineated lines. Digital Elevation Model data was used in part of the process to establish preliminary boundaries. The Hydrologic Unit Code attached to each delineated polygon is linked to the attribute data, which can contain information on area in acres, non-contributing area, state(s) the Hydrological Unit (HU) falls within, name for 5th and 6th level HU, 5th and 6th level code for downstream hydrologic unit and hydrologic unit modifications. Each line has attributes that describe the HU level (1-6), originating source for that line and a metadata ID number that links the line to its associated metadata file.

The following procedures were used to produce this dataset:

- Hydrologic units were incorporated into this dataset from an aggregate of pre-existing HU's.
- A number of new Hydrological Unit Boundaries were delineated using flow lines and basins computed from 10- and 30-meter horizontal resolution Digital Elevation data based on flow derived from the elevation grid to determine potential pour points.
- The DEM data is derived from hypsography represented on 1:24000 USGS topographic quadrangles.
- Additional hydrography data was used as a template to control pourpoint locations for the delineated HU's.

Examples have been listed for all attributes where possible, as have all relevant attribute domains. For those instances where domains are sequential unique whole numbers that are automatically generated, this value has been omitted.

Hydrologic Unit Layer Description



Example Explanation: When delineating 7th level units, all units within a given 6th level unit have the same first 12 digits.

Starting at the uppermost end of the drainage, the first 7th level hydrologic unit would be assigned the code "01" for the 13th and 14th digits. When combined with the 6th level code, the full Hydrologic Unit Code in the above example would be 17100203020901XX. The next downstream unit would be assigned the code "02" for its 13th and 14th digits, making its full HUC code be 17100203020902XX and so on. The "XX" at the end of the example tells users that 8th level units have not been delineated in this area.

For a full description of layer attributes, please see the "Pacific Northwest Hydrologic Unit Boundaries Dataset Standards" document located at http://www.reo.gov/gis/projects/watersheds/Data_Standards2.htm.

Polygon Attribute Tables: Hydrologic Unit Polygons **Table Name: REOHUCV13.PAT**

Hydrologic Unit Boundary Polygon Attributes

ITEM NAME	ITEM DEFINITION
AREA	8,18,F,5
PERIMETER	8,18,F,5
REOHUC_V13#	4,5,B
REOHUC_V13-ID	4,5,B
ACRES	12,12,N,4
HUC_NUM	16,16,C
HUC_TYPE	8,8,C
REGION_NAME	30,30,C
SUBREGION_NAME	30,30,C
BASIN_NAME	30,30,C
SUBBASIN_NAME	30,30,C
WATERSHED_NAME	80,80,C
SUBWAT_NAME	80,80,C
CATCHMENT_NAME	80,80,C
SUBCATCH_NAME	80,80,C
OLD_HUCNUM	16,16,C
STATES	12,12,C
NCONTRIB_DA	12,12,N,4
DS_HUC5	10,10,C
DS_HUC6	12,12,C
HUC_MOD	80,80,C
COMMENT	100,100,C
REGION	2,2,C
SUBREGION	4,4,C
BASIN	6,6,C
SUBBASIN	8,8,C
WATERSHED	10,10,C
SUBWAT	12,12,C
CATCHMENT	14,14,C
SUBCATCH	16,16,C
FIRST_FIELD	2,2,C
SECOND_FIELD	2,2,C
THIRD_FIELD	2,2,C
FOURTH_FIELD	2,2,C
FIFTH_FIELD	2,2,C
SIXTH_FIELD	2,2,C
SEVENTH_FIELD	2,2,C
EIGHTH_FIELD	2,2,C

ACRES
Area of polygon in GIS acres. This item is to be generated from the internal ArcInfo item called "Area."

Example: 34476.917

HUC_NUM
Hydrologic Unit Field Code- In order to identify an area, be it 1st through Nth Levels, each is assigned the combination of Levels which comprise it. Starting at the uppermost end of the drainage, the first 7th level hydrologic unit would be assigned the code 01 for the 13th and 14th digits.

Example: 170102150104XXXX

HUC_TYPE
Hydrologic Unit Types. This item allows users to query hydrologic units based on composition type. Information is presented as a running string where each individual character of the string represents the composition type of a particular unit (e.g.- character number "1" represents the composition type of a "1st level" unit, character number "2" represents the composition type of a "2nd level" unit, etc). Where a hydrologic unit level has not been delineated or the type has yet to be classified, an "X" serves as a placeholder. This is an optional item that may be populated for 1st through 8th level units where deemed necessary.

Example: Closed Basin

Domain Value: T
Domain Value Definition: True, pure, or "classic" hydrologic units are land areas having all the surface drainage within its boundary converging at a single point.
Domain Value: C
Domain Value Definition:
Composite hydrologic units, or remnant areas are drainage areas typically formed as the residual areas after delineation of classic watersheds. The most common example of a remnant area is the small triangular wedge between the boundaries of adjacent hydrologic units flowing into the same side of another stream.
Domain Value: F
Domain Value Definition: Frontal hydrologic units are areas that include multiple, non-convergent rivers. Frontal units would most likely be related to hydrologic units feeding into the Pacific Ocean or Columbia River.
Domain Value: X
Domain Value Definition: Unclassified hydrologic units
Domain Value: S
Domain Value Definition:
Domain Value: R
Domain Value Definition

REGION_NAME
1st Field Hydrologic Unit Naming Protocol

Example: PACIFIC NORTHWEST

SUBREGION_NAME
2nd Field Hydrologic Unit Naming Protocol

Example: UPPER COLUMBIA

BASIN_NAME
3rd Field Hydrologic Unit Naming Protocol
Example: SPOKANE

SUBBASIN_NAME
4th Field Hydrologic Unit Naming Protocol
Example: PRIEST

WATERSHED_NAME
5th Field Hydrologic Unit Naming Protocol
Example: COLUMBIA RIVER/LYNCH COULEE

SUBWAT_NAME
6th Field Hydrologic Unit Naming Protocol
Example: SOUTH SALMO RIVER

CATCHMENT_NAME
7th Field Hydrologic Unit Naming Protocol

SUBCATCH_NAME
8th Field Hydrologic Unit Naming Protocol

OLD_HUCNUM
Historic Hydrologic Unit Number. Because of the national requirement for sequential downstream numbering of hydrologic units, there may be instances where the new hydrologic unit numbers may not be consistent with some historical hydrologic unit numbers. With the renumbering of the hydrologic units, a link may be needed to assist users in identifying hydrologic units based on the historical hydrologic unit numbers.
Example: 17020010

STATES
State(s) containing HU polygon. This item should include the names of all states that a hydrologic unit falls within. Use the 2-digit postal code abbreviation and sort the states in alphabetical order, with a coma separating each state.
Example: ID

Domain Value: OR
Domain Value Definition: Oregon
Domain Value: CA
Domain Value Definition: California
Domain Value: NV
Domain Value Definition: Nevada
Domain Value: ID
Domain Value Definition: Idaho
Domain Value: WA
Domain Value Definition: Washington

NCONTRIB_DA
Drainage areas that do not flow toward the outlet of any hydrologic unit are considered non-contributing areas. Such areas may be due to glaciated plains (potholes), enclosed basins, karst topography, playas, cirques, depression lakes, dry lakebeds, or similar landforms.

Example: 325.9362

DS_HUC5
Fifth Level Downstream HUC. This item represents the hydrologic unit code of the 5th level hydrologic unit receiving the majority of the downstream flow. Outlets created by ditching or other artificial drainage are not to be considered.

Example: 1701021502

DS_HUC6
Sixth Level Downstream Hydrologic Unit Code. This item represents the hydrologic unit code of the 6th level hydrologic unit receiving the majority of the downstream flow. Outlets created by ditching or other artificial drainage are not to be considered.

Example: 170102150106

HUC_MOD
Hydrologic Unit Modifications- This item should contain information about hydrologic unit modifications to natural overland flow (that affect boundary) unique to the 5th or 6th field level unit delineated in an area of interest. This may include information on the type of structure, date of construction or other features that may influence surface water flow. In the attribute field, identify from most significant to least significant modification(s).

Example: SD

Domain Value: SC
Domain Value Definition: Stormwater Canal
Domain Value: BC
Domain Value Definition: Barge Canal
Domain Value: PD
Domain Value Definition: Pipe Diversion
Domain Value: KA
Domain Value Definition: Karst
Domain Value: OC
Domain Value Definition: Overflow Channel
Domain Value: ID
Domain Value Definition: Irrigation Ditch
Domain Value: SD
Domain Value Definition: Stormwater Ditch
Domain Value: CD
Domain Value Definition: Channel Diversion
Domain Value: LE
Domain Value Definition: Levee
Domain Value: OT
Domain Value Definition: Other

Domain Value: IT
Domain Value Definition: Interbasin Transfer
Domain Value: CB
Domain Value Definition: Closed Basin
Domain Value: NC
Domain Value Definition: Non-Contributing
Domain Value: NM
Domain Value Definition: No Modifications

COMMENT
Any additional information that pertains to the hydrologic unit's history or general characteristics that cannot be adequately described in previous items.

Example: Waldo Lake

REGION
1st Field Hydrologic Unit Code

Example:17

SUBREGION
2nd Field Hydrologic Unit Code

Example:1701

BASIN
3rd Field Hydrologic Unit Code

Example: 170102

SUBASIN
4th Field Hydrologic Unit Code

Example: 17010215

WATERSHED
5th Field Hydrologic Unit Code

Example: 1701021501

SUBWAT
6th Field Hydrologic Unit Code

Example: 170102150104

CATCHMENT
7th Field Hydrologic Unit Code

Example: 170102150104XX

SUBCATCH
8th Field Hydrologic Unit Code

Example: 170102150104XXXX

FIRST_FIELD
2-DIGIT IDENTIFIER

Example: 17

SECOND_FIELD
2-DIGIT IDENTIFIER
Example: 01

THIRD_FIELD
2-DIGIT IDENTIFIER
Example: 02

FOURTH_FIELD
2-DIGIT IDENTIFIER
Example: 15

FIFTH_FIELD
2-DIGIT IDENTIFIER
Example: 01

SIXTH_FIELD
2-DIGIT IDENTIFIER
Example: 04

SEVENTH_FIELD
2-DIGIT IDENTIFIER

EIGHT_FIELD
2-DIGIT IDENTIFIER

The following box lists the attribute items found in the REOHUCV13.PATHUC1 table. These attributes pertain to region features depicting Level 1 Hydrologic Units. Attribute definitions already included in the REOHUCV13.PAT table have been omitted here and should be referenced in pages 4-7 of this Data Dictionary.

Hydrologic Unit Boundary HUC1 Region Attribute

ITEM NAME	ITEM DESCRIPTION
AREA	8,18,F,5
PERIMETER	8,18,F,5
HUC1#	4,5,B
HUC1-ID	4,5,B
ACRES	12,12,N,4
HUC_NUM	16,16,C
HUC_TYPE	8,8,C
REGION_NAME	30,30,C
STATES	12,12,C
NCONTRIB_DA	12,12,N
HUC_MOD	80,80,C
COMMENT	100,100,C
REGION	2,2,C
FIRST_FIELD	2,2,C

HUC1#
An internal region identifier; value is assigned by software.

HUC1-ID
Region identifier assigned by user. This item is not used, nor is it changed. Presence is required by software.

The following box lists the attribute items found in the REOHUCV13.PATHUC2 table. These attributes pertain to region features depicting Level 2 Hydrologic Units. Attribute definitions already included in the REOHUCV13.PAT table have been omitted here and should be referenced in pages 4-7 of this Data Dictionary.

Hydrologic Unit Boundary HUC2 Region Attributes

ITEM NAME	ITEM DEFINITION
AREA	8,18,F,5
PERIMETER	8,18,F,5
HUC2#	4,5,B
HUC2-ID	4,5,B
ACRES	12,12,N,4
HUC_NUM	16,16C
HUC_TYPE	8,8,C
REGION_NAME	30,30,C
SUBREGION_NAME	30,30,C
STATES	12,12,C
NCONTRIB_DA	12,12,N,4
HUC_MOD	80,80,C
COMMENT	100,100,C
REGION	2,2,C
SUBREGION	4,4,C
FIRST_FIELD	2,2,C
SECOND_FIELD	2,2,C

HUC2#
An internal region identifier; value is assigned by software.

HUC2-ID
Region identifier assigned by user. This item is not used, nor is it changed. Presence is required by software.

The following box lists the attribute items found in the REOHUCV13.PATHUC3 table. These attributes pertain to region features depicting Level 3 Hydrologic Units. Attribute definitions already included in the REOHUCV13.PAT table have been omitted here and should be referenced in pages 4-7 of this Data Dictionary.

Hydrologic Unit Boundary HUC3 Region Attributes

ITEM NAME	ITEM DEFINITION
AREA	8,18,F,5
PERIMETER	8,18,F,5
HUC3#	4,5,B
HUC3-ID	4,5,B
ACRES	12,12,N,4
HUC_NUM	16,16,C
HUC_TYPE	8,8,C
REGION_NAME	30,30,C
SUBREGION_NAME	30,30,C
BASIN_NAME	30,30,C
STATES	12,12,C
NCONTRIB_DA	12,12,N,4
HUC_MOD	80,80,C
COMMENT	100,100,C
REGION	2,2,C
SUBREGION	4,4,C
BASIN	6,6,C
FIRST_FIELD	2,2,C
SECOND_FIELD	2,2,C
THIRD_FIELD	2,2,C

HUC3#
An internal region identifier; value is assigned by software.

HUC3-ID
Region identifier assigned by user. This item is not used, nor is it changed. Presence is required by software.

The following box lists the attribute items found in the REOHUCV13.PATHUC4 table. These attributes pertain to region features depicting Level 4 Hydrologic Units. Attribute definitions already included in the REOHUCV13.PAT table have been omitted here and should be referenced in pages 4-7 of this Data Dictionary.

Hydrologic Unit Boundary HUC4 Region Attributes

ITEM NAME	ITEM DEFINITION
AREA	8,18,F,5
PERIMETER	8,18,F,5
HUC4#	4,5,B
HUC4-ID	4,5,B
ACRES	12,12,N,4
HUC_NUM	16,16,C
HUC_TYPE	8,8,C
REGION_NAME	30,30,C
SUBREGION_NAME	30,30,C
BASIN_NAME	30,30,C
SUBBASIN_NAME	30,30,C
STATES	12,12,C
NONCONTRIB_DA	12,12,N,4
HUC_MOD	80,80,C
COMMENT	100,100,C
REGION	2,2,C
SUBREGION	4,4,C
BASIN	6,6,C
SUBBASIN	8,8,C
FIRST_FIELD	2,2,C
SECOND_FIELD	2,2,C
THIRD_FIELD	2,2,C
FOURTH_FIELD	2,2,C

HUC4#
An internal region identifier; value is assigned by software.

HUC4-ID
Region identifier assigned by user. This item is not used, nor is it changed. Presence is required by software.

The following box lists the attribute items found in the REOHUCV13.PATHUC5 table. These attributes pertain to region features depicting Level 5 Hydrologic Units. Attribute definitions already included in the REOHUCV13.PAT table have been omitted here and should be referenced in pages 4-7 of this Data Dictionary.

Watershed Boundary HUC5 Region Attributes

ITEM NAME	ITEM DESCRIPTION
AREA	8,18,F,5
PERIMETER	8,18,F,5
HUC5#	4,5,B
HUC5-ID	4,5,B
ACRES	12,12,N,4
HUC_TYPE	8,8,C
REGION_NAME	30,30,C
SUBREGION_NAME	30,30,C
BASIN_NAME	30,30,C
SUBBASIN_NAME	30,30,C
WATERSHED_NAME	80,80,C
OLD_HUCNUM	16,16,C
STATES	12,12,C
NCONTRIB_DA	12,12,N,4
DS_HUC5	10,10,C
DS_HUC6	12,12,C
HUC_MOD	80,80,C
COMMENT	100,100,C
REGION	2,2,C
SUBREGION	4,4,C
BASIN	6,6,C
SUBBASIN	8,8,C
FIRST_FIELD	2,2,C
SECOND_FIELD	2,2,C
THIRD_FIELD	2,2,C
FOURTH_FIELD	2,2,C
FIFTH_FIELD	2,2,C
WATERSHED	10,10,C

HUC5#
An internal region identifier; value is assigned by software.

HUC5-ID
Region identifier assigned by user. This item is not used, nor is it changed. Presence is required by software.

The following box lists the attribute items found in the REOHUCV13.PATHUC6 table. These attributes pertain to region features depicting Level 6 Hydrologic Units. Attribute definitions already included in the REOHUCV13.PAT table have been omitted here and should be referenced in pages 4-7 of this Data Dictionary.

Hydrologic Unit Boundary HUC6 Region Attributes

ITEM NAME	ITEM DEFINITION
AREA	8,18,F,5
PERIMETER	8,18,F,5
HUC6#	4,5,B
HUC6-ID	4,5,B
ACRES	12,12,N
HUC_TYPE	8,8,C
REGION_NAME	30,30,C
SUBREGION_NAME	30,30,C
BASIN_NAME	30,30,C
SUBBASIN_NAME	30,30,C
WATERSHED_NAME	80,80,C
SUBWAT_NAME	80,80,C
OLD_HUCNUM	16,16,C
STATES	12,12,C
NCONTRIB_DA	12,12,N,4
DS_HUC5	10,10,C
DS_HUC6	12,12,C
HUC_MOD	80,80,C
COMMENT	100,100,C
REGION	2,2,C
SUBREGION	4,4,C
BASIN	6,6,C
SUBBASIN	8,8,C
WATERSHED	10,10,C
FIRST_FIELD	2,2,C
SECOND_FIELD	2,2,C
THIRD_FIELD	2,2,C
FOURTH_FIELD	2,2,C
FIFTH_FIELD	2,2,C
SIXTH_FIELD	2,2,C
SUBWAT	12,12,C

HUC6#
An internal region identifier; value is assigned by software.

HUC6-ID
Region identifier assigned by user. This item is not used, nor is it changed. Presence is required by software.

Polygon Attribute Tables: Hydrologic Unit Polygons **Table Name: REOHUCV13.PATHUC7**

The following box lists the attribute items found in the REOHUCV13.PATHUC7 table. These attributes pertain to region features depicting Level 7 Hydrologic Units. Attribute definitions already included in the REOHUCV13.PAT table have been omitted here and should be referenced in pages 4-7 of this Data Dictionary.

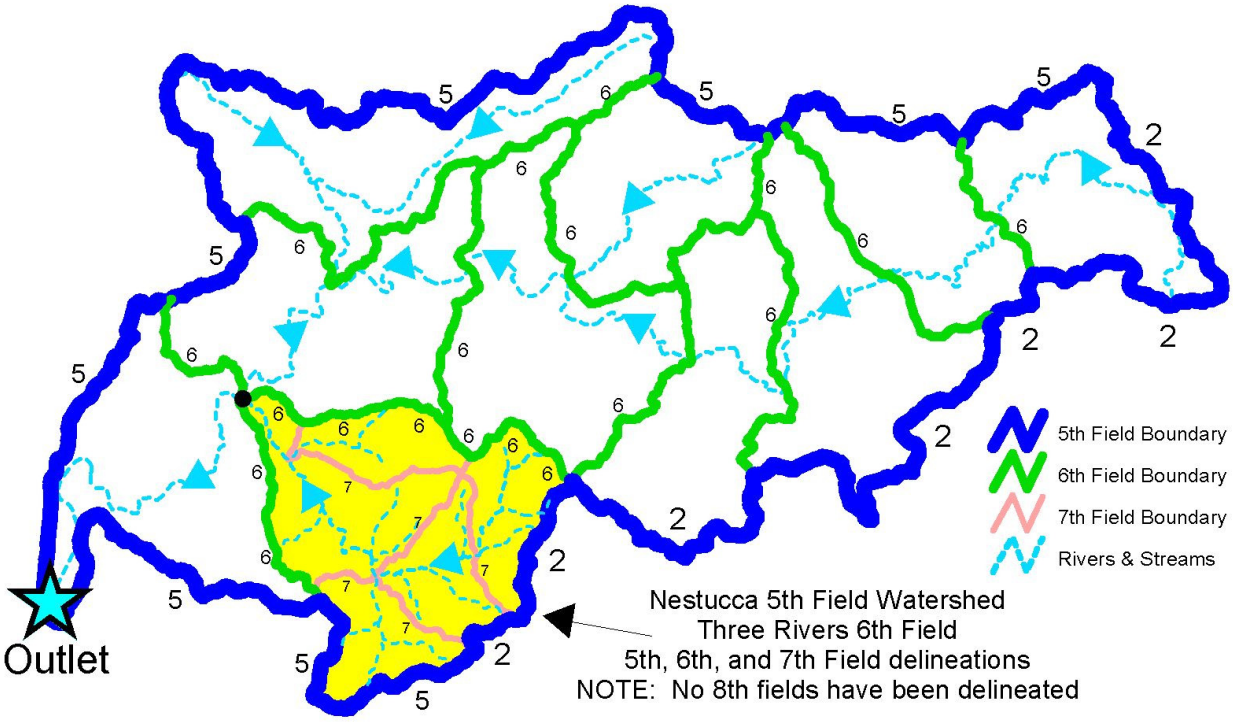
Hydrologic Unit Boundary HUC7 Region Attributes

ITEM NAME	ITEM DEFINITION
AREA	8,18, F, 5
PERIMETER	8,18,F,5
HUC7#	4,5,B
HUC7-ID	4,5,B
ACRES	12,12,N,4
HUC_NUM	16,16, C
HUC_TYPE	8,8,C
REGION_NAME	30,30,C
SUBREGION_NAME	30,30,C
BASIN_NAME	30,30,C
SUBBASIN_NAME	30,30,C
WATERSHED_NAME	80,80,C
SUBWAT_NAME	80,80,C
CATCHMENT_NAME	80,80,C
OLD_HUCNUM	16,16,C
STATES	12,12,C
NCONTRIB_DA	12,12,N
DS_HUC5	10,10,C
DS_HUC6	12,12,C
HUC_MOD	80,80,C
COMMENT	100,100,C
REGION	2,2,C
SUBREGION	4,4,C
BASIN	6,6,C
SUBBASIN	8,8,C
WATERSHED	10,10,C
SUBWAT	12,12,C
CATCHMENT	14,14,C
FIRST_FIELD	2,2,C
SECOND_FIELD	2,2,C
THIRD_FIELD	2,2,C
FOURTH_FIELD	2,2,C
FIFTH_FIELD	2,2,C
SIXTH_FIELD	2,2,C
SEVENTH_FIELD	2,2,C

HUC7#
An internal region identifier; value is assigned by software.

HUC7-ID
Region identifier assigned by user. This item is not used, nor is it changed. Presence is required by software.

Arc Lines Description



Example Explanation: In the example above, line segments that are only coded with the largest hydrologic unit line classification. In cases where a line segment is simultaneously shared between a 2nd level and a 5th level units, the line is coded with a "2." Where a line segment is shared between a 5th, 6th, and 7th level units, the line is given the code of "5", and so on. When 8th level units are eventually delineated, the same process described above should be applied.

This coverage is in a regions (ESRI) format; therefore, this coverage simultaneously holds boundary lines ranging from 1st through 8th level hydrologic units, many boundary lines are shared between different hydrologic unit classifications.

Arc Attribute Table: Hydrologic Unit Polygons **Table Name: reohucv13.AAT**

Arc Attribute Table:

ITEM NAME	ITEM DEFINITION
FNODE#	4,5,B
TNODE#	4,5,B
LPOLY#	4,5,B
RPOLY#	4,5,B
LENGTH	8,18,F
REOHUC_V13#	4,5,B
REOHUC_V13-ID	4,5,B
HUC_LEVEL	1,1,I
LINESOURCE	20,20,C
LINEVER	1,1,C
LINEDATE	10,10,C
LINEORG	10,10,C
METADATA_ID	1,1,I
COMMENT	100,100,C

FNODE#
An internal region identifier; value is assigned by software.

TNODE#
An internal region identifier; value is assigned by software.

LPOLY#
An internal region identifier; value is assigned by software.

RPOLY#
An internal region identifier; value is assigned by software.

LENGTH
Length of feature in internal units.
Example: 1 meter

REOHUC_V13#
An internal region identifier; value is assigned by software.

REOHUC_V13-ID
Region identifier assigned by user. This item is not used, nor is it changed. Presence is required by software.

HUC_LEVEL

This item is used to identify the hydrologic unit groupings a given line segment belongs to. This item is used to identify the hydrologic unit groupings a given line segment belongs to. Primary order is always given to the largest hydrologic unit classification of any shared line segment (e.g. when a hydrologic unit boundary line is shared between a 5th level unit and a 6th level unit, the line receives a code of 5).

Example: 5

Domain Value: 1
Domain Value Definition: 1st Level Unit Boundary
Domain Value: 2
Domain Value Definition: 2nd Level Unit Boundary, NOT Shared with a 1st Level Unit Boundary
Domain Value: 3
Domain Value Definition: 3rd Level Unit Boundary, NOT Shared with 1st or 2nd Level Unit Boundary
Domain Value: 4
Domain Value Definition: 4th Level Unit Boundary, NOT Shared with 1st - 3rd Level Unit Boundary
Domain Value: 5
Domain Value Definition: 5th Level Unit Boundary, NOT Shared with 1st - 4th Level Unit Boundary
Domain Value: 6
Domain Value Definition: 6th Level Unit Boundary, NOT Shared with 1st - 5th Level Unit Boundary
Domain Value: 7
Domain Value Definition: 7th Level Unit Boundary, NOT Shared with 1st - 6th Level Unit Boundary
Domain Value: 8
Domain Value Definition: 8th Level Unit Boundary, NOT Shared with 1st - 7th Level Unit Boundary

LINESOURCE

Information related to the original spatial data source from which the boundary line was derived. This item captures information related to the original spatial data source from which the boundary line was derived. In determining which code to use, preference should be given to the primary source employed to determine the boundary lines position. All line segments should be broken with a node where line sources change.

Example: DRG24

Domain Value: DRG24
Domain Value Definition: USGS 1:24,000 Digital Raster Graphics (DRG)
Domain Value: TVC23
Domain Value Definition: USGS 1:24,000 Tagged Vector Contours (TVC)
Domain Value: DEM10
Domain Value Definition: Derived from 10 Meter Digital Elevation Model (Surface modeling)
Domain Value: DEM30
Domain Value Definition: Derived from 30 Meter Digital Elevation Model (Surface modeling)
Domain Value: DLG
Domain Value Definition: USGS Digital Line Graph
Domain Value: UNK
Domain Value Definition: Unknown

LINEVER

Line Edit Verification- Indicates which level in a series of quality control checks the hydrologic boundary has undergone prior to being accepted as part of the finalized dataset. * Only verification levels of 4 and 5 are included in the regional dataset. This item may be used in local offices to track the progress of edits as organizations delineate new hydrologic units and move toward regional and national certification of those units.

Example: 2

Domain Value: 1
Domain Value Definition: Initial Draft Line
Domain Value: 2
Domain Value Definition: Line accuracy certified by local hydrologist
Domain Value: 3
Domain Value Definition: Line accuracy certified by ALL local participating organizations
Domain Value: 4
Domain Value Definition: Line accuracy certified by Pacific Northwest stewards
Domain Value: 5
Domain Value Definition: Line accuracy certified by National stewards

LINEDATE
Date that the last line edit was performed. This item is used to record the last date a spatial edit was performed to a given line segment. The format should be in: YYYY/MM/DD.

Example: 2002/11/15

LINEORG
The organization who performed the last spatial edit to a given line segment. This item designates the organization who performed the last spatial edit to a given line segment. Depending on the variety of sources used, every line segment within a single hydrologic unit may have a different organization code. The codes are to be applied to individual line segments, not hydrologic unit polygons.

Example: USBLM-EUG

Domain Value: CLAMS
Domain Value Definition: Coastal Landscape Analysis and Modeling Study
Domain Value: IRICC
Domain Value Definition: Intergovernmental Resource Information Coordinating Council
Domain Value: LVWFBR
Domain Value Definition: Longview Fiber Company
Domain Value: NMFS
Domain Value Definition: National Marine Fisheries Service
Domain Value: NRCS
Domain Value Definition: Natural Resources Conservation Service
Domain Value: NWIFC
Domain Value Definition: Northwest Indian Fisheries Commission
Domain Value: ODEQ
Domain Value Definition: OR Dept. of Environmental Quality
Domain Value: ODF
Domain Value Definition: OR Dept. of Forestry
Domain Value: REO
Domain Value Definition: REO (Regional Ecosystem Office). These are lines that were created from REO coverage last updated October 1998.
Domain Value: SNPSN
Domain Value Definition: Simpson Timber Company
Domain Value: UNKNOWN
Domain Value Definition: Unknown input organization
Domain Value: USACE
Domain Value Definition: U.S. Army Corps of Engineers
Domain Value: USBLM-BUR
Domain Value Definition: U.S. Bureau of Land Management - BURNS
Domain Value: USBLM-CSB
Domain Value Definition: U.S. Bureau of Land Management - COOS_BAY
Domain Value: USBLM-EUG
Domain Value Definition: U.S. Bureau of Land Management - EUGENE
Domain Value: USBLM-LKE
Domain Value Definition: U.S. Bureau of Land Management - LAKEVIEW
Domain Value: USBLM-MED
Domain Value Definition: U.S. Bureau of Land Management - MEDFORD
Domain Value: USBLM-OSO
Domain Value Definition: U.S. Bureau of Land Management - OREGON STATE OFFICE

Domain Value: USBLM-PNV
Domain Value Definition: U.S. Bureau of Land Management - PRINEVILLE
Domain Value: USBLM-RSB
Domain Value Definition: U.S. Bureau of Land Management - ROSEBURG
Domain Value: USBLM-SLM
Domain Value Definition: U.S. Bureau of Land Management - SALEM
Domain Value: USBLM-VAL
Domain Value Definition: U.S. Bureau of Land Management - VALE
Domain Value: USBR
Domain Value Definition: U.S. Bureau of Reclamation
Domain Value: USBPA
Domain Value Definition: U.S. Bonneville Power Administration
Domain Value: USEPA-R10
Domain Value Definition: U.S. Environmental Protection Agency - Region 10
Domain Value: USFS-DES
Domain Value Definition: U.S. Forest Service - DESCHUTES
Domain Value: USFS-FRE
Domain Value Definition: U.S. Forest Service - FREMONT
Domain Value: USFS-KAL
Domain Value Definition: U.S. Forest Service - KALMATH
Domain Value: USFS-MAL
Domain Value Definition: U.S. Forest Service - MALHEUR
Domain Value: USFS-MTH
Domain Value Definition: U.S. Forest Service - MT HOOD
Domain Value: USFS-OCH
Domain Value Definition: U.S. Forest Service - OCHOCO
Domain Value: USFS-ROG
Domain Value Definition: U.S. Forest Service - ROGUE RIVER
Domain Value: USFS-R6
Domain Value Definition: U.S. Forest Service - REGION SIX SUPERVISORS OFFICE
Domain Value: USFS-SIS
Domain Value Definition: U.S. Forest Service - SISKIYOU
Domain Value: USFS-SIU
Domain Value Definition: U.S. Forest Service - SIUSLAW
Domain Value: USFS-SIX
Domain Value Definition: U.S. Forest Service - SIX RIVERS
Domain Value: USFS-UMA
Domain Value Definition: U.S. Forest Service - UMATILLA
Domain Value: USFS-UMP
Domain Value Definition: U.S. Forest Service - UMPQUA
Domain Value: USFS-WAL
Domain Value Definition: U.S. Forest Service - WALLOWA WHITMAN
Domain Value: USFS-WIL
Domain Value Definition: U.S. Forest Service - WILLAMETTE
Domain Value: USFS-WIN
Domain Value Definition: U.S. Forest Service - WINEMA
Domain Value: USFWS
Domain Value Definition: U.S. Fish and Wildlife Service
Domain Value: USGS
Domain Value Definition: U.S. Geological Survey

Domain Value: USGS-NMD
Domain Value Definition: U.S. Geological Survey - National Mapping Division
Domain Value: USNPS
Domain Value Definition: U.S. National Park Service
Domain Value: WEYHSR
Domain Value Definition: Weyerhaeuser Company

METADATA_ID
Metadata ID is a code that identifies which metadata file applies to the arc. In many cases, there is one metadata file. However, in some cases more than one metadata file may be created to identify different groups and/or procedures used to produce the lines. These separate metadata files may be identified for each separate arc.

Example: Record Sequence Number

COMMENT
This item may include any additional information that pertains to the hydrologic unit's history or general characteristics that cannot be adequately described in previous items.

Example: STILL NEEDS VERIFICATION